

2710 KAHLER DOUBLE LOCKING TREMOLO
INSTALLATION AND ADJUSTMENT INSTRUCTIONS

The procedure for installing your new Kahler Tremolo System will be as follows:

Section 1 - Installation of the String Lock/Nut Lock

Section 2 - Installation of the Bridge

Section 3 - System Set-up and Adjustment

Section 1 - Installation of the String Lock/Nut Lock

Your Kahler Tremolo System is supplied with either a "Behind the Nut" String Lock assembly, or a Nut Lock assembly.

Part A - "Behind the Nut" String Lock Assemblies

Note: Mount the String Lock as close as possible to the guitar's nut.

Step 1 - If you have a Deluxe String Lock, disassemble the locking levers by raising the levers up and unscrewing the retaining pin from the side of the assembly. With the pin and levers removed, you will have access to all four holes through which the mounting screws pass.

Step 2 - If you have a bullet type truss rod projecting from your headstock, replace it with a Kahler bullet replacement (sold separately).

Step 3 - Detach the strings from the tuning pegs, and set the String Lock loosely on the headstock behind the nut, but as close to the nut as possible.

Step 4 - Re-attach the two outside guitar strings (high E and low E) by passing them over the nut, passing them through the String Lock and attaching them to the tuners. Wind a slight amount of tension on them from the tuners.

Step 5 - Ideally, the strings should be holding the String Lock approximately 1/16th of an inch above the surface of the headstock. If this distance is greater, a shim is needed to support the String Lock. If the String Lock is touching the surface of the headstock, slide it away from the nut until it rises slightly off the surface. This is the best location for the String Lock, because when it is

screwed down, it will pull the strings down snugly into the nut slots. It will also be close to the nut, which eliminates potential tuning problems.

Step 6 - Firmly hold the String Lock in position and carefully drill through one of the four mounting holes with a 1/16th inch diameter drill bit. (Be careful not to drill through the headstock!)

Step 7 - Install a mounting screw into the one hole and tighten the String Lock snugly into place.

Step 8 - Drill the remaining three holes, again being careful not to drill through the headstock.

Step 9 - Install the remaining three mounting screws.

Step 10 - If you have a Deluxe String Lock, replace the three locking levers, and screw in the lever pin which holds them in place.

Part B - Nut Lock Assembly

Note - The installation of the Nut Lock Assembly requires precise woodworking experience and woodworking tools. If you do not have both of these requirements, it is recommended that you have a qualified repairman perform this installation. The following installation steps assume that you have the above mentioned requirements, and therefore, the descriptions of woodworking procedures are not highly detailed.

Step 1 - Remove the four inside strings from the guitar, leaving the two outside strings attached. Loosen the remaining two strings and spread them off the nut to each side of the neck.

Step 2 - Remove the nut from the fingerboard.

Step 3 - Cut a "shelf" for the Nut Lock Assembly which is about 1/8th of an inch below the fingerboard and has a floor which is parallel to the fingerboard. The back wall of the shelf must be flush with the end of the fingerboard.

Step 4 - Disassemble the Nut Lock Assembly and place the Nut Lock Base onto the shelf.

Step 5 - Re-locate the two remaining guitar strings and tune them to full tension.

Step 6 - Inspect the height of the strings above the first fret. Then fret the strings at the first fret and inspect the strings' height above the second fret. Your goal is to make the strings' height in these two conditions the same.

Do so by either cutting the shelf deeper to lower the strings coming off the nut, or shim the Nut Lock Base with combinations of the supplied shims to elevate the strings' height coming off the nut. The shims are to be positioned under the outer edges of the Nut Lock Base. Different numbers of shims can be used under opposite ends of the Nut Lock Base to get accurate height settings for both outside strings.

Step 7 - Install the Small Nut Lock Mounting Screws through the small recessed holes in the top of the Nut Lock base. Install the large Nut Lock Mounting Screws through the large recessed holes in the top of the Nut Lock base. Nut Lock Mounting Bolts may be used instead of the Large Nut Lock Mounting Screws. If the Bolts are to be used, drill through the neck from the back and insert the bolts through the neck and into the bottom of the Large Recessed holes in the Nut Lock Base.

Step 8 - With the Nut Lock Base secured in position, attach the String Director onto the rear edge of the Nut Lock Base using the other two small mounting screws which will pass through the Nut Lock Base, and drive them into the wood of the guitar neck. Be sure the String Director is positioned so that "Kahler" is near the bass side and "Pat.Pend." is near the treble side.

Step 9 - Re-assemble the Lock Down Tabs and Bolts.

Step 10 - During the final set-up of your guitar (following bridge installation), check the height of the Nut Lock Assembly by performing Step 6 on all six guitar strings. If any one string is too low, raise it up by stacking an additional shim beneath the end of the Nut Lock Base closest to the low string. This may be done easily by loosening the mounting screws or bolts (you do not need to remove them) and sliding a shim underneath the appropriate end of the Nut Lock Base.

